

# SC 210

## Video and Sync Converter/Stabilizer



### FEATURES

- **Input:** Female BNCs for RGBHV, RGBS, RsGsBs, RGSB
- **Output:** Female BNCs for RGBHV, RGBS, or RGSB
- 250 MHz (-3 dB) RGB video bandwidth
- **Accepts any input sync type and converts it to any output sync type** —  
 RGSB input converts to RGBS or RGBHV output  
 RGBS input converts to RGSB or RGBHV output  
 RGBHV input converts to RGSB or RGBS output  
 RsGsBs input converts to RGSB, RGBS, or RGBHV output
- Strips sync on green
- DIP switches for horizontal shift, restoration or removal of serration pulses, and input termination
- Rack-mountable 1U, half rack width metal enclosure
- Internal international power supply

### DESCRIPTION

The Extron **SC 210** is a 250 MHz (-3 dB) Video and Sync Converter/Stabilizer that is designed to provide a one-box solution for all sync routing combinations. The SC 210 accepts virtually any input sync configuration and converts it to any output sync configuration. For example, if RGBS is run through a system with a display device that requires RGBHV, a SC 210 would easily solve the problem while providing sync stability at the same time.

The SC 210 utilizes a built-in sync stripping circuit, which makes it ideal for eliminating costly cabling in matrix switchers by allowing all signals to route as RGSB — sync on green, and then be stripped back out on the output as RGBS or RGBHV. The SC 210 can also be used as a sync stabilizer in applications for which there is noticeable jitter on the projected image.

### VIDEO OUTPUT

Number / Signal type .....	1 analog RGBHV, RGBS, RGSB
Connectors .....	5 BNC female
Nominal level .....	0.7 Vp-p for RGB
Minimum / Maximum levels .....	Analog: 0.3 V to 1.5 Vp-p (follows input)
Impedance .....	75 ohms
Return loss .....	<-28 dB @ 5 MHz
DC offset .....	±10 mV maximum with input at 0 offset

### SYNC

Input type .....	RGBHV, RGBS, RGSB, RsGsBs
Output type .....	RGBHV, RGBS, RGSB
Input level .....	RGBHV, RGBS (min./max): TTL/analog, 0.6 to 5 Vp-p RGSB, RsGsBs (nominal): analog, 0.3 Vp-p
Output level .....	TTL: 4 V to 5 Vp-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. propagation delay .....	130 ns
Max. Rise / Fall time .....	4 ns
Polarity .....	RGBHV, RGBS: positive or negative (follows input) RGSB, RsGsBs: negative

### GENERAL

Power .....	100 VAC to 240 VAC, 50/60 Hz, 10 watts, internal, autoswitchable
Temperature / Humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, noncondensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, noncondensing
Rack mount .....	Yes, with optional shelf, #60-190-01 or 60-604-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 8.7" W x 9.4" D (1U high, half rack wide) 4.4 cm H x 22.1 cm W x 23.9 cm D
Product / Shipping weight .....	3.0 lbs (1.4 kg) / 5 lbs (3 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL / CE, FCC Class A
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.

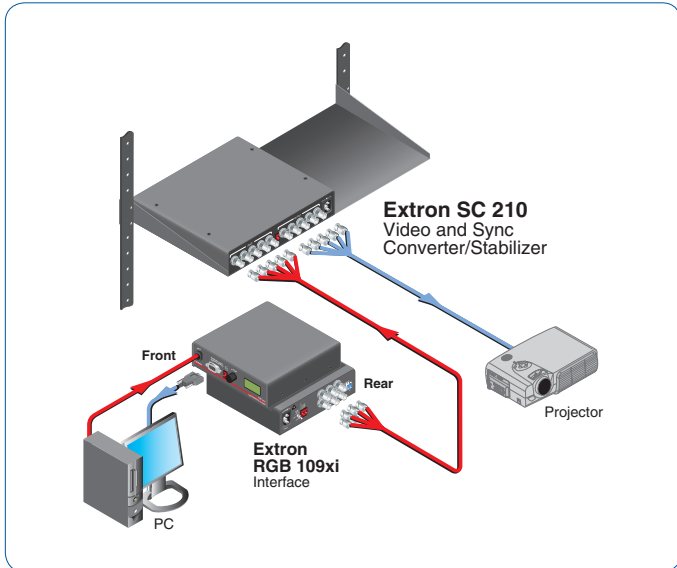
### SPECIFICATIONS

#### VIDEO

Gain .....	Unity
Bandwidth .....	250 MHz (-3 dB)

#### VIDEO INPUT

Number / Signal type .....	1 analog RGBHV, RGBS, RGSB, RsGsBs
Connectors .....	5 BNC female
Nominal level .....	0.7 Vp-p for RGB
Minimum / Maximum levels .....	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance .....	75 ohms
Horizontal frequency .....	15 kHz to 150 kHz
Vertical frequency .....	40 Hz to 140 Hz
Return loss .....	<-30 dB @ 5 MHz
DC offset (max. allowable) .....	2 V



### MODEL

SC 210	Video & Sync Converter .....	PART #	60-154-01
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### OPTIONAL ACCESSORIES

MODEL DESCRIPTION	PAGE	PART #
RSU 129 1U 9.5" Deep Universal Rack Shelf Kit .....	page 759	60-190-01
RSB 129 1U 9.5" Deep Basic Rack Shelf .....	page 760	60-604-01
SYM BNCF/0.5 15-pin HD Male-BNC Female 6" (15 cm) .....	page 719	26-531-01
SYM BNCF/0.5 15-pin HD Male to BNC Male Mini High Resolution Cables .....	page 718	26-533-02